HDMI Extender over one CAT5E/CAT6(TCP/IP)

CHE-HDBT200

User manual

Thank you for purchasing this product. For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

I. Introduction

The HDMI Extender over ONE CAT 5E/6 is a tool for extending your HDMI signal over long distances to a compatible display. Instead of using expensive HDMI cables, your existing CAT 5E/6 cables/sockets can be utilized to perform advanced functions like transferring Deep Color (12 bits/color) video and digital audio, with a bandwidth up to 225MHz. The HDMI transmitter and receiver, over ONE CAT 5E/6 extender is your substantial HDMI extender tool. The HDMI Extender over ONE CAT 5E/6 also support IR re-transmitting, so you can control the Source which is 330 feet outside using the HDMI Extender.

II. Features

DC 5V~12V wide power supply.

HDMI 1.3, HDCP 1.1 and DVI1.1 compliant.

Support Deep Color up to 12 bits/color.

Support IR re-transmitting.

Uses one CAT5E/6 cable for data/DDC transmission.

Equalizes and recovers incoming TMDS data before re-transmitting it in optimal quality regardless of the incoming signal quality.

Cable testing showed that with 1080p resolution the HDMI input source can be 65 feet away.

When transmitting a signal in 1080p resolution the CAT6 operating distance is 330 feet.

III. Package

HDMI Extender (Transmitter) ---------- 1PC

HDMI Extender (Receiver)---------- 1PC

IR Transmitter ---------- 1PC

IR Receiver ---------- 1PC

5V DC Power Supply adapter ---------- 2PCS

Operation Manual ---------- 1PC

IV. Specifications

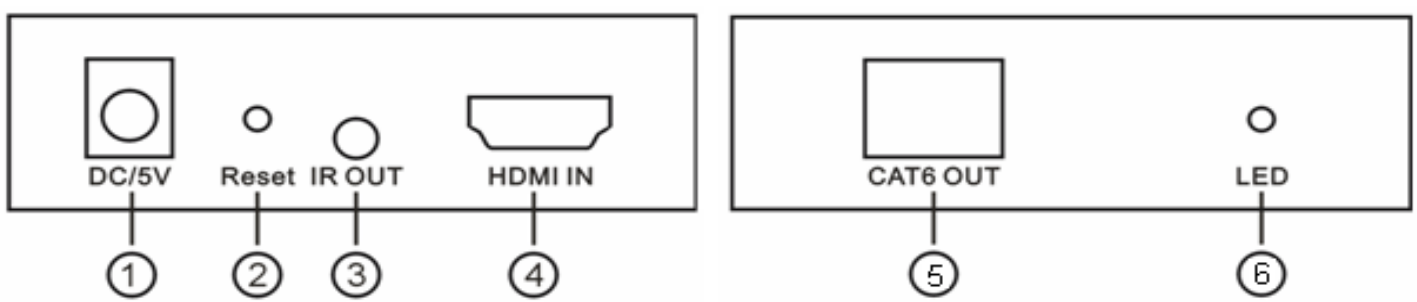
Frequency Bandwidth	2.25Gbps (single link)
HDMI Transmitter Input/Output Ports	1x HDMI Female port/1 x CAT6
HDMI Receiver Input/Output Ports	1 x HDMI Female port/1 x CAT6
Power Supply	DC 5V~12V

ESD Protection Human Body Model:	± 8kV (air-gap discharge)
	± 4kV (contact discharge)
Dimensions (mm)	65(W) X 100 (D) X 25 (H)
Operating Temperature	0˚C ~ 40˚C / 32˚F ~ 104˚F
Storage Temperature	-20˚C ~ 60˚C / -4˚F ~ 140˚F
Relative Humidity	20~90% RH (non-condensing)

V. Operation controls and Functions

1. HDMI Extender Transmitter

Front Panel **Rear Panel**



1) Power: Plug the 5V~12VDC power supply into the unit and connect the adapter to AC wall outlet.

2) RESET KEY: Factory default key.

3) IR OUT: Remote control signal transmit， connect the IR transmit cable with HDMI Extender Transmitter; The IR transmit cable face to the IR receiver of the Source．

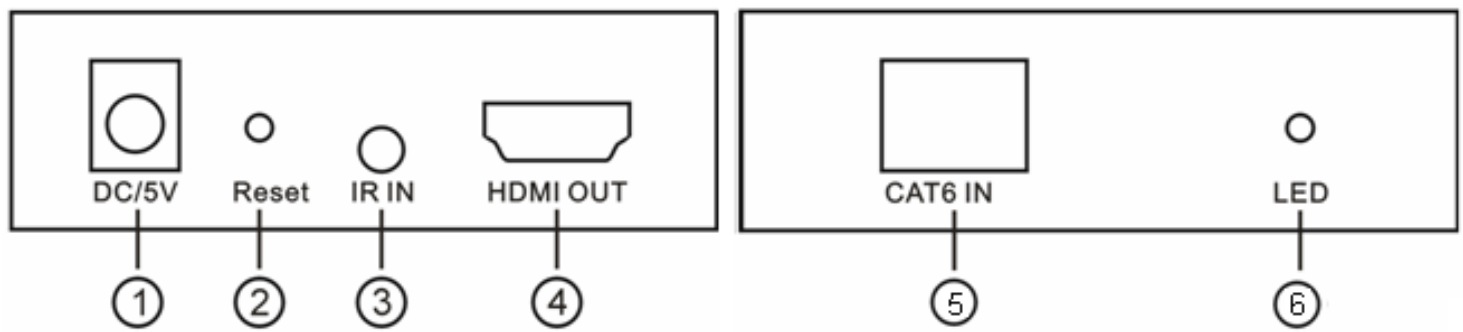
4) HDMI：HDMI Input port.

5) CAT6 OUT: Connect the CAT 5E/6 output of the Transmitter with the CAT 5E/6 input of the HDMI over single CAT6 receiver.

6) LED indicator: When the DC power on, the indicator will be light.

2. HDMI Extender Receiver

Front Panel **Rear Panel**



1) Power: Plug the 5V~12VDC power supply into the unit and connect the adapter to AC wall outlet.

2) RESET KEY: Factory default key

3) IR IN: Remote control signal Receive，connect the IR receive cable with HDMI Extender Receiver.

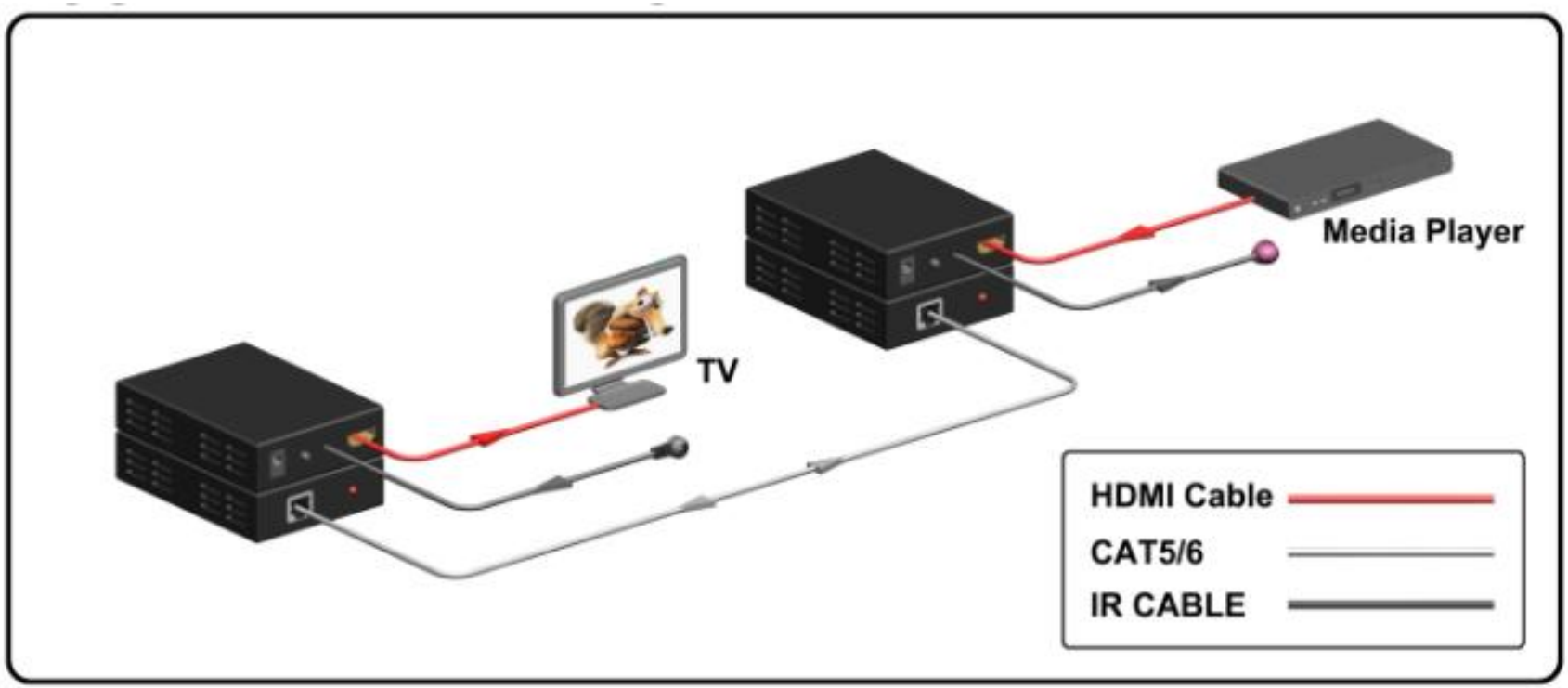
4) HDMI Out: HDMI output port.

5) CAT6 IN: Connect the CAT6 in of the receiver with the CAT6 input of the HDMI over

single CAT6 transmitter.

6) LED indicator: When the DC power on, the indicator will be light.

VI. Application Example



Router Connection: